SBR No. 69/22-23
DATED 12/12/2022

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR.No. 69/22-23

Date.....2022 Dt. 12/12/2022

No. II & Final bill

Division: **Electrical (yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-001-22-000010**

Schedule Docket No. Head of Account : P-CODE:P1828 D.R.No. :

Name of Work:- Providing LED Street lights/Control switches/control wires at Dark/vulnerabale places in Ward no 01,02,03&04

Name of Contractor and Full Address: M/s Suraksha Electricals.

Reference to Agreement No:- BBMP/EE/ELE/YZ/AGR/000017/2022-23 Date 22.04.2022

Work order No:- EE(Ele)/YZ/W.O/000017/2022-23 Date 27/04/2022

Certified that the measurements were taken by me on 15/7/22 and recorded of Pages 260008 to 260013 of measurement Book No. 2601/22-23 and that the work is satisfactorily executed.

For M/s. Suraksha Electricals
Proprietor

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on ..15/7/22.....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub Division Officer

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	2nd & Final Bill 13067527=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1% 130675=00
3)	" Balance	LWC 1% 130675=00
4)	Deduct Payment:	GBS 0.1% 13068=00
a)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	GST 1% 116674=00
b)	Payments Now made cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	SGST 1% 116674=00
		Fine 13720=00
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	Deduction 515266=00 5214
7)	Net amount due to or from Contractor	unadjustments items
8)	Advance to Contractor for materials brought to site (as detailed) within	Cheque 12552613=00
9)	Value of Government materials supplied.	Total amount adjusted - 12546041

For M/s. Suraksha Electricals
Contractor's Signature
Proprietor

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

Witness
1.
2.

Dated Signature of Contractor

For M/s. Suraksha Electricals
Stamp
Proprietor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P1828 provisional Addl to
ರೂ:13067527=00 ಅಕ್ಷರದಲ್ಲಿ ಮುಂಗಡ ಪೀಠಿಸಿದೆ
ರೂ:12552613=00 ಚೆಕ್ ನೀಡಿರುವುದಾಗಿದೆ
ರೂ:(515266=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ
12546041 5214866=00

Executive Engineer

ಸಹಾಯಕ ಅಭಿಯಂತರರು ಕಾ.ಮಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl. No	Description	Unit
	Name Of Work:- Providing LED Street lights/Control switches/control wires at Dark/vulnerabale places in Ward no 01,02,03&04	
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 90 Watts	Nos
2	Supplying and Fixing of. mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.Pipe	Nos
3	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos
4	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring.4 sqmm	Mtrs
5	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA.	Nos
6	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	Nos
7	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs
8	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtrs
9	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.300mmx450mmx214mm	Nos
10	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.50-63 Amps SP	Nos
11	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	Nos
12	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter.(Togal switch)	Nos

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		1150	7514.42	8641583.00	1150	8641583.00	
		1127	876.33	987623.91	1127	987623.91	
		1150	183.66	211209.00	1150	211209.00	
		3985	9.44	37618.40	3985	37618.40	
		55	4754.23	261482.65	55	261482.65	
		55	2155.67	118561.85	55	118561.85	
		596	157.42	93822.32	596	93822.32	
		596	31.48	18762.08	596	18762.08	
		40	5380.78	215231.20	40	215231.20	
		40	758.78	30351.20	40	30351.20	
		40	7556.40	302256.00	40	302256.00	
		40	141.68	5667.20	40	5667.20	

13	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.25x3mm GI strip	Mtrs
14	Wiring for lighting/power circuit using one of **FRLS** PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.6 sqmm	Mtrs
15	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.6 sqmm	Nos
16	Supply of RCC Pole - 9 Mtr Long, 145 Kg WL (Dwg No.BESCOM/GM/QS&S/02 Dtd 24.11.2018) as per IS-785	Nos
17	Digging of Pits 1.8 mtr depth for errection of 9 to 10 mtr Long Steel/RCC/PSC supports as per approved Drawing. 1)Ordinary Soil	Nos
18	Supply of LT 2 Pin X Arms - MS (Dwg No. BESCOM/GM/QS&S/32 Dtd 24.11.2018)	Nos
19	Erection of steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail I Beam of sizes 200x100mm, 175x90 mm, 125x100 mm. Fabricates poles tubular poles in pits of 1.8 mtr Depth, Aligning, Refilling with soil and ramming as approved drawing	Nos
20	1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max) b) Permanent Elongation After Cooloing: 3% (Max) 2. Thermal Aging in oven: a) Tensile Strength: 16 N/mm² (Min) b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm² (Max) 4. Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral)	Kms
21	Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	Kms
	Total Rs	
	Add GST Charges 12%	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

		16	78.71	1259.36	16	1259.36	
		20	73.48	1469.60	20	1469.60	
		198	7.35	1455.30	198	1455.30	
		4	6567.77	26271.08	4	26271.08	
		4	436.59	1746.36	4	1746.36	
		4	91.30	365.20	4	365.20	
		4	350.53	1402.12	4	1402.12	
		3.988	154276.50	615254.68	3.988	615254.68	
		3.988	23581.22	94041.91	3.988	94041.91	
				11667434.42		**11667434.42**	
				1400092.13		1400092.13	
				13067526.55		**13067526.55**	